

FORM 504 Rev. Dec. 1933 DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT
Topographic Sheet No 29
State Georgia
LOCALITY
Vicinity of Doboy Sound
Connegon River to Darien River
•
193 4
CHIEF OF PARTY
C.A.Egner

U.S. GOVERNMENT PRINTING OFFICE: 1934

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 29 5634

REGISTER NO.

State	Georgia
Vicin General locality	ofDoboy Sound back Channels
	onnegon River to Darien River
	Date of survey October- November 19 34
	ty No. 23
Chief of Party	C. A. Egner
Surveyed by	C. A. Burmister
Protracted by	V. F. Simmons, L. B. Ackerman
	3.6 ed by Simmons Patterson
Soundings in fat	,
Plane of referen	ce
	ire dragged areas by
	mcConnik
V	imeCormicta
U	ed <u>December 5, 1933</u> , 19
4 · 4	

U. S. GOVERNMENT PRINTING OFFICE: 1931

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SHEET NO. 29

INSTRUCTIONS:

This sheet was executed under Instructions dated December 5, 1933, covering operations of Field Party No. 23.

PURPOSE:

To provide a more comprehensive survey than has before been available.

LIMITS AND JUNCTIONS:

This sheet lies to the west of Doboy Sound and includes the Connegon River, North River and side creeks leading therefrom. Sheet 29 joins sheet 7 (MIKAWE) to the northeast, sheet 6 (MIKAWE) to the east, and sheet 5 (MIKAWE) to the south.

CHARACTER OF LOCALITY:

This area covers the relatively unimportant section between Sapelo Sound and Doboy Sound which falls to the westward of the Inside Route. This accounts for its omission from the general area of sheets 6 and 7 (MIKAWE).

The rivers are not long but lead in a crooked course from the main waters of the Sounds to the high ground just north of Darien.

CONTROL:

Control for the hydrography was furnished by a few signals located by plane-table (supplemented by a few located by sextant fix) all based on a few triangulation stations of the 1932 (C.M.D.) breakdown scheme.

Relatively few signals were required, since the area is comparatively open flat marsh, making it possible to take sextant fixes some distance away.

No additional triangulation was done within the confines of this sheet.

Shoreline, for the most part, was provided by the 5-lens 1/21,500 (approx) flights, reduced to the scale of this sheet by direct reduction with the new reduction camera in the Photo-compilation section. The eastern edge of the sheet fell within the single lens flights, from which the shoreline was traced.

CONTROL VERTICAL:

Soundings were reduced from tidal data obtained at a recovered MIKAWE staff at the mouth of the Hudson River (Doboy Sound) and at the old Sapelo Lighthouse Doboy Sound. In this latter case, a new staff was established and leveling done to the old bench marks, the plane for which had been previously determined. The MIKAWE staff and plane at this point had been destroyed, and therefore could not be used.

METHODS:

The standard methods with hand lead operation from a small launch were used throughout.

In the side channels only one or two lines were run to indicate the best water. No attempt was made to determine the zero curve in the side channels.

Some very unimportant side creeks were omitted as for instance the one around Pine Island (off of Mayhall Creek) as having no value.

In general the hydrography was completely controlled by sextant fix, supplemented in a few cases by spotting of position from the shoreline.

COMPARISON WITH PREVIOUS SURVEYS:

Since no survey had ever been made of these channels or shoreline, no satisfactory basis for comparison exists.

Note: Practicely all of the are covered by the about is also covered by H. 959 (1868) and H-964 (1868) although only a small portion is shown on the clear.

GEOGRAPHIC NAMES:

Charted ones have been retained in the absence of any better information.

COAST PILOT INFORMATION:

Nothing worthy of inclusion in the Coast Pilot is found on this sheet, as it all falls outside the Inside Route.

TIDAL DATA, STATISTICS, AND LIST OF SIGNALS:

Are all shown on accompanying tables.

Respectfully,

Hyd. & Geod. Engr., Chief of Party.

Hydrographic Statistics Sheet No. 29

Date	Day	Vol.	Boat	Miles Snd'gs.	Number Soundings	Number Positions
11/20/34	a	1 (oglethorpe	39.3	1192	301
21	ъ	1	π	20.0	633	162
21	ь	2	п	11.2	367	96
22	c	2	n	31.4	932	236
23	đ	2	n	10.0	350	94
23	đ	3	п	2.5	145	37
		Total	q	114.4	3619	926

List of signals on Hydrographic Sheet No. 29

Triangulation Stations.

Union Island CHIMney

ALKENS

Fox 2, 1932

Atwood 1932

Topographic Signals.

Tel

Rag

Mink

Amy

Jenk '

Folloy

End

Get

Dead

Vex

Hydrographic (sextant) locations.

Cat

Fish

Creek

Ti n

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. 5634

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	97.6
Number of positions checked	81
Number of positions revised	47
Number of soundings recorded	3619
Number of soundings revised	many would and reglated.
Number of signals erroneously	
plotted or transferred	•••••

Date: Lept. 3, 1935

Verification by January

Review by H.W. Murray

Time: 76 hv.

Time: 172"

	Survey No. H 5634
GEOGRAPHIC NAMES Pate Feb. 7, 1975	Chart No. 1241
Names underlined in ald GEORGIA	, Diagram No. 1241 - 2
Date Feb. 7, 1935 Mamus underlined in ald GEORGIA approved Musch 21,1935 Approved by the Division of Geographic Names, Department	nent of Interior. *
Referred to the Division of Geographic Names, Departn	· · · · · · · · · · · · · · · · · · ·
Under investigation. Q	$\frac{\frac{1}{2}}{2}$

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	Black Island	Same			
	Pine Island	76			
	Moyhall Greek	May Hall Creek	-11/1/40		
	Mayhall Island	May Hall Island $ u$		4	
	Catfish Creek	Same		1	
	Darien River V	11		/ 🐪	
	Rockdedundy River	/ "			
	Herd Island	``			
; 	North River	`			
	Dead River	16	ı		
	Folly River		d.		
	Fox Creek	٠,			
	Connegon River	•,			···
	Hudson River	· Hudson	Creek-	- Jow	
	Atwood Creek	• •			
· · · · · · · · · · · · · · · · · · ·	Note: The names of	n this sheet were in	nked in by	the Field.	
· · · · · · · · · · · · · · · · · · ·	Authority: May Ha	11 Island and Creek	- Prog. Mi	itary Maps	s, and
	Chart #1241.				
					·
			1		
					-

March 21, 1935.

Division of Hydrography and Topography:

Division of Charts: Attention Mr. E. P. Ellis

Tide Reducers are approved in 3 volumes of sounding records for

HYDROGRAPHIC SHEET 5634

Locality Connegon River to Darien River, Ga.

Chief of Party: C. A. Egner in 1934
Plane of reference is mean low water, reading
3.5 ft. on tide staff at Hudson River
6.9 ft. below B.M.1

Reducers from tides at Sapelo Light House were verified with Fort Screven observations, time 20 minutes later, since record for Sapelo Light House was not available.

Height of mean high water above plane of reference is 7.2 ft. at Hudson River, 6.8 ft. at Sapelo Light House.

Condition of records satisfactory except as noted below:

Chief Division of Tides and Currents.

Verfeer's Report on H- 5634.

Oceans were in fairly good shape.

Drottacting was good. Gross made by full platter were one mostly to four

Demarks: Shoreline was compared with T- 5/21, T-5122, T-5220 and T-5221 all schotographed in Nov. 1933. Nearly half the verifier's Time was spent in revising shouling which necessitated changing numerous positions, The control on this sheet is from. no fact can be placed in any of potiniand the top graphic or hydrographic signals 1.4 No. A. The field glotting of fractions 52-116 a was accepted by the verifier as being as good a guess as any. Times for these facilions which fall in the lower part of may Hall Creek were based on eignalo which the field party to be enoneously located. But the is no information concerning correct docations The control is also madequate. One faction had a right angle of 14 segres and a left augle of 9 degrees and these angles taken on poorly located signals. Verifier has indicated on this sheet by green arrows certain sections which fundaments in the surveyed by Lieut. Bond on disposition. H- 5631 earlier in The year 1934, a tracing of heat. Bond's work in there areas accompanies this report. In new of the numerous in accuración of this sheet (H-5634) it is verifier's oferion that Lunt. Bour's work should be accepted meterd of Trying to combine the two surveys.

an mount has been added to the school of shown. This was some in this office. Field party could wery easily love land out the sheet so that the ment would not the sheet so that the meets as they made have been necessary. As it was they made no alternate to just the follower which full the sheet.

Sept. 3, 1935. Submitted,

famicarmich.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5634 (1934) - FIELD NO. 29

Connegon River to Darien River, Vicinity of Doboy Sound, Georgia Surveyed in 1934

Instructions dated December 5, 1933 (C. A. Egner)

Hand Lead Soundings.

3 Point Fixes on Shore Signals.

Chief of Party - C. A. Egner.
Surveyed by - C. A. Burmister.
Protracted by - V. F. Simmons and L. B. Ackerman.
Soundings penciled by - V. F. S. and J. G. Patterson.
Verified and Inked by - J. A. McCormick.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual except as follows;

- a. Names of signals used were not consistently entered at the top of each page of the sounding records.
- b. On the cover label and title page of the sounding records, the position numbers and day letters were in black ink. These were changed to the proper color in the office. (Par. 138).
- c. A number of positions and accompanying soundings plotting outside the limits of the smooth sheet were not shown on an appropriate insert. This was accomplished in the office.
- d. Geographic names were inked on the smooth sheet by the field party instead of being left in pencil as required by Par. 160.

The "Descriptive Report" is clear and satisfactorily covers all matters of importance, except that a statement should have been made regarding the control in May Hall Creek.

2. Compliance with Instructions for the Project.

The plan, character and extent of the survey satisfy the instructions for the project except that the control for the hydrography in May Hall Creek is inadequate. The only fix available for this creek was not only a weak one, but two of the signals involved (Tin and Tel) were not accurately determined. Plotting with the control as given, the lower portion of the creek would be swung from 200 to 500 meters to the westward. The field party realized this difficulty (see Note page 11, Vol. 1) and plotted the positions by shoreline and time. This can only be a rough approximation, since no shoreline was shown on the boat sheet and very few references thereto appear in the sounding records.

May Hall Creek, while narrow, is a deep water creek, connecting North River with Darien River, and warranted a more accurate survey than is given by the present one.

3. Shoreline and Control.

The shoreline shown on this smooth sheet originates with Air Photo Compilation surveys: T-5120 (1933), T-5121 (1933), T-5122 (1933), T-5220 (1933) and T-5221 (1933). The control originates with Graphic Control surveys: T-6195a (1934), T-6195b (1934) and T-6196a (1934) and several sextant located signals.

4. Sounding Line Crossings.

No general system of cross lines was run but those that were, as well as the adjacent lines, show good agreement.

5. Depth Curves.

Within the limits of the survey, the usual depth curves may be satisfactorily drawn including portions of the low water curve.

6. Junctions with Contemporary Surveys.

- a. The junction on the east and northeast with H-5632 (1934) is satisfactory.
- b. The junction on the east and south with H-5631 (1935) was not entirely satisfactory. Numerous inaccurately protracted positions on both H-5631 (1934) and the present survey caused discrepancies of as much as 10 feet in depth. All of these discrepancies were smoothed out in the office.

In May Hall Creek (a connecting stream between Darien and North Rivers), a holiday of about $\frac{1}{2}$ mile in length exists between the present survey and H-5631 (1934). This gap is covered by H-964 (1868).

7. Comparison with Prior Surveys.

H-959 (1868) and H-964 (1868).

The above surveys which cover the entire area of the present survey are in substantial agreement with the present work with such minor changes as would be expected in view of the time elapsed since the 1868 surveys. Several streams including the holiday discussed in paragraph 6 of this review are not covered by the present survey but are covered by H-964 (1868). In view of the general close agreement between the old and and present survey, soundings of the 1868 survey should be used for charting purposes in such areas.

8. Comparison with Charts No. 574 (Corrected to January 19, 1934), No. 575 (Corrected to December 19, 1934) and 3257 (Corrected to February 7, 1935).

Information shown on the above charts originate with surveys discussed in preceding paragraphs and contains no additional information that needs consideration in this review.

9. Field Plotting.

Field protracting was poor. This was particularly noticeable at the junction with H-5631 (1934) in lat. 31° 23.6', long. 81° 20.5' causing a bad disagreement with the latter sheet. This should have been apparent to the field plotter and investigated. Corrected plotting brought the two sheets into good agreement. Field plotting of soundings, however, was accurate and conforms to the requirements of the Hydrographic Manual.

10. Additional Field Work Recommended.

Aside from several streams of minor importance which are not covered by the present survey and are discussed in paragraphs 2 and 6b of this review, the survey is complete and no additional field work is required.

11. Note to Compiler.

Attention is directed to the continued use of prior surveys recommended in paragraph 7 of this review.

12. Superseding Previous Surveys.

Within the area covered, the present survey supersedes the following surveys for charting purposes:

H-959 (1868) in part. H-964 (1868) in part, except as noted in paragraph 7.

13. Reviewed by - Harold W. Murray, September 20, 1935.

Inspected by - A. L. Shalowitz.

Examined and approved:

C. K. Green, C. H. Green. Chief, Section of Field Records.

Chief, Section of Field Work.

Chief, Division of Charts.

Chief, Division of H. & T.

Applied to Chart 840, Dec. 1935 W.A.B.

EUL 1936

Applied to new compilation drawing of Charl 574-Nov. 3, 1936- Jour, " " Charl 575 June 1937 PBC

applied to chark 1242, mar. 16, 1939 g.K.S.